08-06-	2004	
Form PTO-1595 (Rev. 03/01)	U.S. DEPARTMENT OF COMMERCI U.S. Patent and Trademark Offic	
OMB No. 0651-0027 (exp. 5/31/2002) 102807	774	
To the Honorable Commissioner of Patents and Trademarks: P	lease record the and original documents or copy thereof	
Name of conveying party(ies):	Name and address of receiving party(ies)	
Nobuaki MATSUOKA	Name: SHARP KABUSHIKI KAISHA	
	Internal Address:	
,—, —,	Street Address:	
Additional name(s) of conveying party(ies) attached? Yes x No	22-22, Nagaike-cho, Abeno-ku	
3. Nature of Conveyance:		
x Assignment Merger		
Security Agreement Change of Name	City: Osaka-shi	
Other	State: Osaka, JAPAN Zip: 545-8522	
Execution Date: June 21, 2004	Additional name(s) & Yes X No address(es) attached:	
A. Patent Application No.(s):	B. Patent No.(s):	
Additional numbers attache		
Additional numbers attaches. Name and address of party to whom correspondence	ed? Yes x No 6. Total number of applications and	
Additional numbers attaches. Name and address of party to whom correspondence concerning document should be mailed: Name: Thomas E. Ciotti	ed? Yes X No 6. Total number of applications and patents involved: 1	
Additional numbers attached. 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Thomas E. Ciotti MORRISON & FOERSTER LLP Internal Address: Atty. Dkt.: 559502002100 Street Address:	ed? Yes x No 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41) \$ 40.00 Enclosed	
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United States Patent Rights, or United States plus All Foreign Patent Rights

ATTORNEY DOCKET NO.
559502002100

ASSIGNMENT

		Application No Filed
Insert Name(s) of Inventor(s)	→	WHEREAS, Nobuaki MATSUOKA
		(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in
Insert Title of Invention	→	SEMICONDUCTOR MEMORY DEVICE
		for which an application for Letters Patent of the United States of America has been executed by the undersigned
Insert Date of Signing of Application	→	on
Insert Name of Assignee	→	WHEREAS, SHARP KABUSHIKI KAISHA
Insert Address	_	
of Assignee	7	of 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan
СНЕСК ВОХ		its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and
F APPROPRIATE	→	NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assigned and transfer unto said Assignee the fill and exclusive right to the said invention in the United Sates of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of

America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign

and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same

pa-819372

countries;

may be granted.

PATENT REEL: 015658 FRAME: 0445 The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof or Letters Patent(s) or reissue patent issue thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) the request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Morrison & Foerster LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

Date June 21, 2004,	Name of Inventor _	nobiaki	matsuoka
D. c.	N. CI	Nobuaki MAT	
Date,	Name of Inventor _		
Date,	Name of Inventor _		
Date	Name of Inventor _		
Data	None of Land		
Date,	name of Inventor _		
Date	Name of Inventor		

pa-819372

PATENT REEL: 015658 FRAME: 0446

RECORDED: 07/28/2004